

Add up to 20 new Class/subclass identifiers to be added to this NDC

- (4) 380/23
- (5) 380/24
- (6) 380/25
- (7) 380/30
- (8) 380/46
- (9) 380/49
- (10) 380/50
- (11) 235/379
- (12) 235/380
- (13)

Named Document Collection: 594983s

\*\*\* New NDC \*\*\*

Limit to date range? (Y / N): N

Retrieval by country? (Y / N): N

Pick a reference type: A

- (O) Original only
- (C) Cross only
- (A) All

Pick a display order

Pick an overall order: M

- (S) Separate subclasses
- (M) Merge subs together

Pick a date order: O

- (N) Newest-to-oldest
- (O) Oldest-to-newest

Pick a duplicates option: D

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- (S) Show duplicates

List patent sections to display in desired order: F

- (F) Front page
- (D) Drawings
- (S) Specification
- (S1) First page of Specification (US only)
- (S2) First two pages of Specification (US only)
- (C) Claims
- (CC) Changes/Corrections (US only)
- (R) Reexamination certificates (US only)
- (AM) Amendments (Foreign only)
- (A) All sections in standard order

Pick a viewing option: U

- (U) View unreviewed
- (S) View skipped
- (T) View tagged
- (A) View all
- (N) View none

Retrieve Documents from Training File? (Y / N): N

Execute? (Y / N): Y



Add up to 20 new Class/subclass identifiers to be added to this NDC

- (1) 380/4
- (2) 380/9
- (3) 380/21
- (4) 380/23
- (5) 380/24
- (6) 380/25
- (7) 380/30
- (8) 380/46
- (9) 380/49
- (10) 380/50

Named Document Collection:

Limit to date range? (Y / N): N

Retrieval by country? (Y / N): N

Pick a reference type: A

- (O) Original only
- (C) Cross only
- (A) All

Pick a display order

- Pick an overall order: M
- (S) Separate subclasses
  - (M) Merge subs together

- Pick a date order: N
- (N) Newest-to-oldest
  - (O) Oldest-to-newest

- Pick a duplicates option: D
- (D) Do not show duplicates
  - (S) Show duplicates

List patent sections to display in desired order: F, D

- (F) Front page
- (D) Drawings
- (S) Specification
- (S1) First page of Specification (US only)
- (S2) First two pages of Specification (US only)
- (C) Claims
- (CC) Changes/Corrections (US only)
- (R) Reexamination certificates (US only)
- (AM) Amendments (Foreign only)
- (A) All sections in standard order

Pick a viewing option: U

- (U) View unreviewed
- (S) View skipped
- (T) View tagged
- (A) View all
- (N) View none

Retrieve Documents from Training File? (Y / N): N

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24 JAN 97 12:06:03

U.S. Patent & Trademark Office

P0001

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* * * * *
*
*      Welcome to MESSENGER (APS Text) at USPTO
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*      The USPTO production files are current through:
*      21 JAN. 1997 for U.S. Patent Text Data.
*      21 JAN. 1997 for U.S. Current Classification data.
*      21 JAN. 1997 for U.S. Patent Image Data.
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*      * PLEASE USE 305-9000 FOR NEW TELEPHONE NUMBER *
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*      A new set of Messenger enhancements is available,
*      effective December 9, 1996. The new FOCUS command
*      allows you to display your search results in relevance-
*      ranked order. Enter FOCUS and the L-number you want
*      to view (e.g., FOCUS L5), and then display the resulting
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*      DISCLAIMER:
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*aps/messenger Workman  
in input + 9/24/97  
on apr- 1/24/97 BEL*

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24 JAN 97 12:06:16 U.S. Patent & Trademark Office P0002

\*  
\* \* \* \* \*  
\* Help Desk --> 703-305-9000 \*

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FILE 'USPAT' ENTERED AT 12:06:16 ON 24 JAN 97

\* \* \* \* \*  
\* W E L C O M E T O T H E \*  
\* U. S. P A T E N T T E X T F I L E \*  
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24 JAN 97 12:06:25 U.S. Patent & Trademark Office P0003

=> set highlighting off  
SET COMMAND COMPLETED

=> s (380\*23 or 380\*24 or 380\*25 or 235\*379 or 235\*380)/ccls

774 380\*23/CCLS  
(380/23/CCLS)

236 380\*24/CCLS  
(380/24/CCLS)

658 380\*25/CCLS  
(380/25/CCLS)

641 235\*379/CCLS  
(235/379/CCLS)

992 235\*380/CCLS  
(235/380/CCLS)

L1 2383 (380\*23 OR 380\*24 OR 380\*25 OR 235\*379 OR 235\*380)/CCLS

=> s l1 and module#

76920 MODULE#

L2 543 L1 AND MODULE#

=> s l2 and transaction#

23330 TRANSACTION#

L3 323 L2 AND TRANSACTION#

=> s (encrypt? or encipher? or cipher? or scrambl?)

3468 ENCRYPT?

658 ENCIPHER?

1106 CIPHER?

4621 SCRAMBL?

L4 7997 (ENCRYPT? OR ENCIPHER? OR CIPHER? OR SCRAMBL?)

=> s l3 and l4

L5 205 L3 AND L4

=> s (key or keys or random or pseudorandom or certificate#)

134229 KEY

42791 KEYS

124129 RANDOM

1442 PSEUDORANDOM

3601 CERTIFICATE#

L6 250845 (KEY OR KEYS OR RANDOM OR PSEUDORANDOM OR CERTIFICATE#)

=> s l5 and l6

L7 200 L5 AND L6

=> s (encrypt? or encipher? or cipher? or scrambl?)/ti,ab

269 ENCRYPT?/TI

909 ENCRYPT?/AB

55 ENCIPHER?/TI

184 ENCIPHER?/AB

64 CIPHER?/TI

211 CIPHER?/AB

12:10:38 COPY AND CLEAR PAGE, PLEASE

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24 JAN 97 12:10:47 U.S. Patent & Trademark Office P0004  
345 SCRAMBL?/TI  
780 SCRAMBL?/AB  
L8 1951 (ENCRYPT? OR ENCIPHER? OR CIPHER? OR SCRAMBL?)/TI,AB  
=> s 17 and 18  
L9 94 L7 AND L8  
=> dis his

(FILE 'USPAT' ENTERED AT 12:06:16 ON 24 JAN 97)

SET PAGELENGTH 62  
SET LINELENGTH 78  
SET HIGHLIGHTING OFF  
L1 2383 S (380\*23 OR 380\*24 OR 380\*25 OR 235\*379 OR 235\*380)/CCLS  
L2 543 S L1 AND MODULE#  
L3 323 S L2 AND TRANSACTION#  
L4 7997 S (ENCRYPT? OR ENCIPHER? OR CIPHER? OR SCRAMBL?)  
L5 205 S L3 AND L4  
L6 250845 S (KEY OR KEYS OR RANDOM OR PSEUDORANDOM OR CERTIFICATE#)  
L7 200 S L5 AND L6  
L8 1951 S (ENCRYPT? OR ENCIPHER? OR CIPHER? OR SCRAMBL?)/TI,AB  
L9 94 S L7 AND L8  
=> s (key or keys or random or pseudorandom or certificate#)/ti,ab  
3247 KEY/TI  
14732 KEY/AB  
327 KEYS/TI  
4744 KEYS/AB  
1961 RANDOM/TI  
9325 RANDOM/AB  
48 PSEUDORANDOM/TI  
219 PSEUDORANDOM/AB  
16 CERTIFICATE#/TI  
144 CERTIFICATE#/AB  
L10 27453 (KEY OR KEYS OR RANDOM OR PSEUDORANDOM OR CERTIFICATE#)/TI,AB  
=> s 19 and 110  
L11 52 L9 AND L10  
=> d cit,ab 1-52

1. 5,577,124, Nov. 19, 1996, Multi-purpose high speed cryptographically secure sequence generator based on zeta-one-way functions; Michael M. Anshel, et al., 380/46; 364/224.21, DIG.1; 380/25, 30 [IMAGE AVAILABLE]

US PAT NO: 5,577,124 [IMAGE AVAILABLE] L11: 1 of 52

ABSTRACT:  
A method is disclosed whereby a high performance, high integrity, cryptographically secure sequence generator based on zeta one-way functions is specified for pseudorandom sequence generation, authentication, key transfer by public discussion, and message transmission by public-key encryption. The method encompasses a new one-way function with trapdoor based on Artin reciprocity in an algebraic number field. Public keys are pseudorandom sequences based on zeta one-way functions. In the simplest instance of this method, public keys are quadratic signatures, i.e. special sequences of Jacobi symbols. The generation, transfer, and sharing of private keys is a process based on the law of quadratic reciprocity. The computational complexity of the quadratic signature problem provides the  
12:11:46 COPY AND CLEAR PAGE, PLEASE

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24 JAN 97 12:14:52

U.S. Patent & Trademark Office

P0025

US PAT NO: 3,956,615 [IMAGE AVAILABLE] L11: 51 of 52  
a multiple account data base and a plurality of transaction terminals in communication with the host. The terminals each include a keyboard, a display, document handling subsystems, a hardware control subsystem, a communication subsystem and a programmable control subsystem supervising the other subsystems. A user initiates a transaction request by inserting a card into one of the terminals. After reading acceptable account identification information from the card the terminal requests entry of a preassigned personal ID number through the keyboard. The ID number is encrypted by the terminal at least once and communicated to the host along with information read from the card and entered via the keyboard. The host accesses from its stored data base an encrypted ID number corresponding to the received card information and makes a verification comparison of the stored encrypted ID number with the encrypted ID number received from the terminal. By requiring the entry of a nonencrypted ID number at a terminal while storing only encrypted ID numbers at the host, the correspondence between credit card account information and ID numbers need be known only to a few key personnel having access to both the encryption algorithm and a particular key therefor.

52. 3,761,682, Sep. 25, 1973, CREDIT CARD AUTOMATIC CURRENCY DISPENSER; Thomas R. Barnes, et al., 235/381; 221/206; 235/379; 340/825.33; 902/5, 13, 15, 20, 27 [IMAGE AVAILABLE]

US PAT NO: 3,761,682 [IMAGE AVAILABLE]

L11: 52 of 52

ABSTRACT:

A currency dispenser automatically delivers a medium of exchange in packets in response to a coded credit card presented thereto. The coded credit card is presented to the currency dispenser and an initial check is made to determine if the card has the proper format. After checking the credit card format, coded information thereon is evaluated to check the user's identity prior to authorizing him to receive cash from the machine. When each of several additional checks of the credit card code have been completed, the old code is removed and substituted with a new code. The new code contains the same information as the old but updated to reflect an additional currency dispensing transaction. Both the original code and the updated code are scrambled in accordance with a changing key. Scrambling the credit card code after each use thereof minimizes the chance of unauthorized use of the currency dispenser. When the checks of the credit card code indicate the user is entitled to receive the amount of currency he has selected, a storage container for the packets of currency transports the required number of packets by a positive feed drive to a cash drawer. The cash drawer opens to a detent position which allows the customer to then move the drawer to a fully open position to remove his currency. Upon release of the cash drawer, it returns to a partially opened position from which it automatically closes after a preset time limit.

=> file jpoabs

FILE 'JPOABS' ENTERED AT 12:15:05 ON 24 JAN 97

```
* * * * *
*   J A P A N E S E   P A T E N T   A B S T R A C T S   *
*
* CURRENTLY, DATA IS LOADED THROUGH THE ABSTRACT PUBLICATION *
* DATE OF July 1996. *
* THE LATEST GROUPS RECEIVED ARE: PAJ539 & PAJ540. *
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24 JAN 97 12:15:13 U.S. Patent & Trademark Office P0026

=> dis his

(FILE 'USPAT' ENTERED AT 12:06:16 ON 24 JAN 97)

```
                SET PAGELength 62
                SET LINELENGTH 78
                SET HIGHLIGHTING OFF
L1      2383 S (380*23 OR 380*24 OR 380*25 OR 235*379 OR 235*380)/CCLS
L2      543 S L1 AND MODULE#
L3      323 S L2 AND TRANSACTION#
L4      7997 S (ENCRYPT? OR ENCIPHER? OR CIPHER? OR SCRAMBL?)
L5      205 S L3 AND L4
L6      250845 S (KEY OR KEYS OR RANDOM OR PSEUDORANDOM OR CERTIFICATE#)
L7      200 S L5 AND L6
L8      1951 S (ENCRYPT? OR ENCIPHER? OR CIPHER? OR SCRAMBL?)/TI,AB
L9      94 S L7 AND L8
L10     27453 S (KEY OR KEYS OR RANDOM OR PSEUDORANDOM OR CERTIFICATE#)/TI,
L11     52 S L9 AND L10
```

FILE 'JPOABS' ENTERED AT 12:15:05 ON 24 JAN 97

=> s module#

L12 18809 MODULE#

=> s l4

```
                98 ENCRYPT?
                475 ENCIPHER?
                1697 CIPHER?
                1682 SCRAMBL?
L13 3627 (ENCRYPT? OR ENCIPHER? OR CIPHER? OR SCRAMBL?)
```

=> s l6

```
                57622 KEY
                11575 KEYS
                13854 RANDOM
                11 PSEUDORANDOM
                445 CERTIFICATE#
L14 74234 (KEY OR KEYS OR RANDOM OR PSEUDORANDOM OR CERTIFICATE#)
```

=> s l12 and l13

L15 38 L12 AND L13

=> s l15 and l14

L16 15 L15 AND L14

=> d cit,ab 1-15

1. 08-212198, Aug. 20, 1996, FRONT PROCESSING DEVICE AND METHOD THEREOF;  
TETSUO TANAKA, G06F 17/21; G06F 15/00; G09G 5/22; G09G 5/24; //G09C 1/00;  
H04L 9/00; H04L 9/10; H04L 9/12

08-212198

L16: 1 of 15

ABSTRACT:

PURPOSE: To attain the security management or the charging processing of a  
font in every set of characters.  
12:16:20 COPY AND CLEAR PAGE, PLEASE

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24 JAN 97 12:17:13 U.S. Patent & Trademark Office P0033  
61-269733 L16: 14 of 15

referred to nor executed without the intervention of a control module 120.

15. 60-24792, Feb. 7, 1985, BROADCASTING METHOD AND TRANSMITTER AND RECEIVER  
FORTHIS METHOD; TAKASHI KAMITAKE, H04N 7/167; H04N 1/00

60-24792 L16: 15 of 15

ABSTRACT:

PURPOSE:To obtain the correct TV signal for specified contractors by  
transmitting the signal which indicates the program together with the TV  
signal and designating algorithm at the scrambler and disc rumble.

CONSTITUTION:At the broadcast station 21 side, the tear code is supplied to  
the key file 27 and output Ki works as the key Ki of the cipher device 29.  
Output of the cipher device 29 becomes the key Ks of the scrambler 25. The TV  
signal is transmitted by encryption at the scrambler 25 and the signal is  
supplied to the receiver 23 through the artificial satellite 20. The  
receiving signal is separated to the TV signal and bit row, and the tier code  
is separated at the separator 33. The tier code is supplied to the key module  
35, this output becomes the key of the cipher device 31, alternating  
algorithm is designated and the TV signal is regenerated. The pay TV system  
is obtained which is impossible to intercept.

=> file uspat  
FILE 'USPAT' ENTERED AT 12:17:21 ON 24 JAN 97

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\* WELCOME TO THE \*  
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\*\*\*\*\*

=> dis his

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SET PAGELENGTH 62  
SET LINELENGTH 78  
SET HIGHLIGHTING OFF  
L1 2383 S (380\*23 OR 380\*24 OR 380\*25 OR 235\*379 OR 235\*380)/CCLS  
L2 543 S L1 AND MODULE#  
L3 323 S L2 AND TRANSACTION#  
L4 7997 S (ENCRYPT? OR ENCIPHER? OR CIPHER? OR SCRAMBL?)  
L5 205 S L3 AND L4  
L6 250845 S (KEY OR KEYS OR RANDOM OR PSEUDORANDOM OR CERTIFICATE#)  
L7 200 S L5 AND L6  
L8 1951 S (ENCRYPT? OR ENCIPHER? OR CIPHER? OR SCRAMBL?)/TI,AB  
L9 94 S L7 AND L8  
L10 27453 S (KEY OR KEYS OR RANDOM OR PSEUDORANDOM OR CERTIFICATE#)/TI,  
L11 52 S L9 AND L10

FILE 'JPOABS' ENTERED AT 12:15:05 ON 24 JAN 97

L12 18809 S MODULE#  
L13 3627 S L4  
12:17:26 COPY AND CLEAR PAGE, PLEASE

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24 JAN 97 12:17:35 U.S. Patent & Trademark Office P0034  
L14 74234 S L6  
L15 38 S L12 AND L13  
L16 15 S L15 AND L14

FILE 'USPAT' ENTERED AT 12:17:21 ON 24 JAN 97

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